

COC. #68

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 X 420-9210 (509) 924-9200 x 924-9290

(503) 906-9200

FAX 906-9210 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: M106024 P160878

CLIENT: Bristol						INVO	ICE TO:	B	16:52	10+						TURN	NAROUNI	D REQUEST	in Busi	ness Da	ıys*
REPORT TO: AME K	vanaluet	Har				Í											~ ~	nic & Inorganic			
ADDRESS: Auchitha																10	5	4 3	2	1	<1
						100										STD.	Petrolei	um Hydrocarbo			L
PHONE: 70-097U PROJECT NAME: AMCH		FAX: 7	70-	09	75	P.O. N	IUMBER	-	1090							_5	4	3 2	1	< 1	
\	if for						REQU	UESTE	EDANA	LYSES	5	-				ST			e Specify		
PROJECT NUMBER: 2109					1	13							· ·				OTH	ER			-
SAMPLED BY: AR C	RM				الم	9-14	1									*Turnar	ound Requests	less than standar	d may incur	Rush Cha	rges.
CLIENT SAMPLE	SAMP	LING	d	L &	X	weeks AK										MATRIX	# OF				NCA WO
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3. 0/AMRX235L	6/9/01	1720		1	1											5	2	RX	7165	_	
4.01AMEX 24SL	6/9/01	17-25		1	1											S	2	RX	7175	36	
5.01 Am 2x 25 SL	6/9/01		gang criseses seonghistra ivo	anning against	mada af samurum	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa	MARIONAL PROPERTY OF A STATE OF THE PROPERTY O	NO CONTRACTOR AND ADDRESS OF THE PARTY OF TH		NAME OF THE PROPERTY OF THE PR			Philipsoppulpepiili Mir	a mathatri que sustinario que proprieta 1944 M		5	2				
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11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 (425) 420-9200 (509) 924-9200 420-9210 \$924-9290

(503) 906-9200 FAX 906-9210 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: 1160878

CLIENT: ERISTY				INVO	DICE TO	Э:								TURN	NAROUNI	D REQUEST in B	usiness D	ays*
REPORT TO: AME	ICANALUETTE	IZ_		BR	215	10										nic & Inorganic Analys	-	·
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PROJECT NUMBER: 2 \ O															Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the O			_
SAMPLED BY: Y. P. I		1 5					1.							*Turnan	ound Requests	less than standard may ir	eur Rush Che	arges.
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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

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(503) 906-9200 FAX 9 (541) 383-9310 FAX 3

FAX 906-9210 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: P1 60878

CLIENT: BKISTOL					ICE TO									TÜRN		REQUEST in Business Da	ys*
REPORT TO: AME KRANAWETT	ER			BK	SP	OL	Nincounter.									ic & Inorganic Analyses	
ADDRESS: AMCHITICA BLAND,			A											10 7 STD.		m Hydrocarbon Analyses	<1
PHONE: 907-710.0974 FAX: 7	10-	09	75	P.O. N	UMBE	R: 2	100	10						5		3 2 1 <1	
PROJECT NAME: AMCH ITKA					REC	QUEST	ED ANA	ALYSES	5					STI	D	Please Specify	
PROJECT NUMBER: 21090															ОТН		
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11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
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(425) 420-9200 F^Y 420-9210 (509) 924-9200 724-9290

(509) 924-9200 (503) 906-9200 (503) 906-9200 (504) 382 0210 (504) 382 0210 (504) 382 0210

CHAIN OF CUSTODY REPORT

Work Order #: M1 07044

CLIENT: BRISTOL	agenty and				CE TO:								TURN	NAROUN	D REQUEST in Business	Days*
REPORT TO: ANDE	KRANAWE	THER		BR	4 STO	-								-	nic & Inorganic Analyses	
ADDRESS: AMCH													10 7	5	4 3 2	1 <1
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PHONE: 90 - 0 -		10-0		P.O. NU	JMBER: Z			2					ST			
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Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.42ն fax 425.420.9210

Spokane East 11115 ...ontgomery, Suite B, Spokane, WA 99206-4776

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Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

25 October, 2001

Steve Johnson Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are amended results of analyses for samples received by the laboratory on 07/26/01 12:00. If you have any questions concerning this report, please feel free to contact me. These results supercede all previous results reported by the laboratory.

Sincerely,

Jerry Orlando

Project Manager/QA

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Work Orders included in this report:

P1G0878



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425.42(fax 425.420.9210

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Portland

Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 21090, PO# 21090 Project Manager: Steve Johnson

Amended Report

Issued: 10/25/01 12:23

ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMRXT15SL	P1G0878-01	Soil	06/09/01 17:15	07/26/01 12:00
01AMC303SL	P1G0878-02	Soil	07/20/01 13:25	07/26/01 12:00
01AMC526SL-A	P1G0878-03	Soil	07/20/01 14:40	07/26/01 12:00
01AMRX01SL	P1G0878-04	Soil	07/22/01 10:55	07/26/01 12:00



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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Steve Johnson

Amended Report Issued: 10/25/01 12:23

Total Metals per EPA 6000/7000 Series Methods

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMRXT15SL (P1G0878-01) Soil					Sampled: 06/0	9/01 Recei	ived: 07/26/	01	
Arsenic	ND	0.500	mg/kg dry	1	EPA 6020	07/28/01	08/01/01	1071826	
Barium	92.2	1.00	"	10	11	11	07/31/01	n n	
Cadmium	ND	0.500	"	*	н	11	"	"	
Chromium	66.6	0.500	n		н	11	**	"	
Lead	2.98	0.500	"	**	n	11	n	"	
Nickel	68.8	1.00	n	**	**	"	**	n	
Selenium	ND	0.500	**	1	n	11	**	**	
Silver	ND	0.500	n	10	н	11	11	11	
Vanadium	230	2.50	и	1	. "	11	**	ŧt	
01AMRX01SL (P1G0878-04) Soil					Sampled: 07/2	2/01 Recei	ived: 07/26/	01	
Nickel	69.2	51.9	mg/kg dry	10	EPA 6020	08/15/01	08/16/01	1081413	

North Creek Analytical - Portland



Seattle 11720 Nr

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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 21090, PO# 21090 Project Manager: Steve Johnson

Amended Report

Issued: 10/25/01 12:23

Mercury by EPA Method 1631 North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMRXT15SL (P1G0878-01) Soil				9	Sampled: 06/0	9/01 Recei	ved: 07/26/0	01	
Mercury	0.00177	0.000500	mg/kg dry	1	EPA 1631	07/31/01	08/01/01	1071910	I-05

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc. **Environmental Laboratory Network**

Page 3 of 14



Seattle 11720 N

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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Steve Johnson

Amended Report Issued: 10/25/01 12:23

Polynuclear Aromatic Compounds per EPA 8270M-SIM North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC303SL (P1G0878-02) Soil				5	Sampled: 07/2	0/01 Rece	ived: 07/26/0	01	R-0:
Acenaphthene	ND	670	ug/kg dry	50	EPA 8270m	07/31/01	08/03/01		
Acenaphthylene	ND	670	" " " "	"	11 A 62/0111	07/31/01	U8/U3/U1 "	1071915	R-03
Anthracene	ND	670	11	#	11	n	"	,	R-0:
Benzo (a) anthracene	ND	26.8	п	2	11	n		,,	R-03
Benzo (a) pyrene	ND	26.8	u	"	н	11	08/02/01	,	
Benzo (b) fluoranthene	ND	26.8	**	**	н	,,	"	**	
Benzo (ghi) perylene	ND	26.8	11	н	n		"		
Benzo (k) fluoranthene	ND	26.8	11	11	ıı		n		
Chrysene	36.2	26.8	**	17		 H	" "		
Dibenzo (a,h) anthracene	ND	26.8	#	11		,,	٠,	**	
Fluoranthene	ND	670	n	50	н	"			
Fluorene	ND	3350	11	30 H		" "	08/03/01	n n	R-03
Indeno (1,2,3-cd) pyrene	ND	26.8	it		,,	" "			R-03
Naphthalene	ND ND	1340	,	2			08/02/01	Ħ	
Phenanthrene	2600	670	11	50 "	"	11	08/03/01	H	R-03
Pyrene	52.5	26.8	 11	2	W #	"	00/00/01	n n	
Surr: Fluorene-d10	NR	40-150				·	08/02/01		
Surr: Pyrene-d10	NR NR								S-01
•	NK	40-150							0.00
Surr: Benzo (a) pyrene-d12	95.6 %	40-150							S-0 ₂
Surr: Benzo (a) pyrene-d12 D1AMC526SL-A (P1G0878-03) Soil	95.6 %			S	Sampled: 07/20	0/01 Recei	ived: 07/26/0	01	
		40-150	ug/kg dry		Sampled: 07/20		ived: 07/26/0		
D1AMC526SL-A (P1G0878-03) Soil	2390	1680	ug/kg dry	125	Sampled: 07/20 EPA 8270m	0/01 Recei	08/03/01	01 1071915	R-05
DIAMC526SL-A (P1G0878-03) Soil Acenaphthene	2390 ND	1680 1680		125	EPA 8270m	07/31/01		1071915	R-05
DIAMC526SL-A (P1G0878-03) Soil Acenaphthene Acenaphthylene	2390	1680 1680 1680	H	125	EPA 8270m	07/31/01	08/03/01	1071915	R-05
D1AMC526SL-A (P1G0878-03) Soil Acenaphthene Acenaphthylene Anthracene	2390 ND ND ND	1680 1680 1680 67.0	н	125	EPA 8270m	07/31/01	08/03/01	1071915	R-05
D1AMC526SL-A (P1G0878-03) Soil Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene	2390 ND ND	1680 1680 1680 67.0 67.0	H H	125 " " 5	EPA 8270m	07/31/01	08/03/01 " " 08/02/01	1071915	R-05 R-03
D1AMC526SL-A (P1G0878-03) Soil Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene	2390 ND ND ND ND	1680 1680 1680 67.0	H H	125	EPA 8270m	07/31/01	08/03/01 " " 08/02/01	1071915	R-05 R-03
D1AMC526SL-A (P1G0878-03) Soil Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene	2390 ND ND ND ND ND	1680 1680 1680 67.0 67.0	11 11 11 11	125	EPA 8270m	07/31/01	08/03/01 " " 08/02/01	1071915	R-05 R-03 R-08
D1AMC526SL-A (P1G0878-03) Soil Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (ghi) perylene	2390 ND ND ND ND O69.1 ND	1680 1680 1680 67.0 67.0 67.0	n n n	125	EPA 8270m	07/31/01	08/03/01 " " 08/02/01 "	1071915	R-05 R-03 R-08
D1AMC526SL-A (P1G0878-03) Soil Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (ghi) perylene Benzo (k) fluoranthene	2390 ND ND ND ND 69.1 ND ND ND	1680 1680 1680 67.0 67.0 67.0 67.0 67.0	11 11 11 11	125	EPA 8270m	07/31/01	08/03/01 " " 08/02/01 " "	1071915	R-05 R-03 R-08
D1AMC526SL-A (P1G0878-03) Soil Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (ghi) perylene Benzo (k) fluoranthene Chrysene	2390 ND ND ND ND 69.1 ND ND	1680 1680 1680 67.0 67.0 67.0 67.0	11 11 11 11 11 11	125	EPA 8270m	07/31/01	08/03/01 " " 08/02/01 " " " " "	1071915	R-05 R-03 R-08 R-08
DIAMC526SL-A (P1G0878-03) Soil Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (ghi) perylene Benzo (k) fluoranthene Chrysene Dibenzo (a,h) anthracene	2390 ND ND ND ND 69.1 ND ND ND 94.2 ND	1680 1680 1680 67.0 67.0 67.0 67.0 67.0 67.0	11 11 11 11 11 11 11 11 11 11 11 11 11	125	EPA 8270m	07/31/01	08/03/01 " " 08/02/01 " "	1071915	R-05 R-03 R-08 R-08
DIAMC526SL-A (PIG0878-03) Soil Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (ghi) perylene Benzo (k) fluoranthene Chrysene Dibenzo (a,h) anthracene Fluoranthene	2390 ND ND ND ND 69.1 ND ND 94.2 ND ND	1680 1680 1680 67.0 67.0 67.0 67.0 67.0 67.0 1680	11 11 11 11 11 11 11 11 11 11 11 11 11	125	EPA 8270m	07/31/01	08/03/01 " " 08/02/01 " " " " " 08/03/01	1071915	R-05 R-03 R-08 R-08
DIAMC526SL-A (PIG0878-03) Soil Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (ghi) perylene Benzo (k) fluoranthene Chrysene Dibenzo (a,h) anthracene Fluoranthene Fluorene	2390 ND ND ND ND 69.1 ND ND 94.2 ND ND ND	1680 1680 1680 67.0 67.0 67.0 67.0 67.0 1680	11 11 11 11 11 11 11 11 11 11 11 11 11	125	EPA 8270m	07/31/01	08/03/01 " 08/02/01 " " " " 08/03/01 " 08/03/01	1071915	R-05 R-03 R-08 R-08
Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (ghi) perylene Benzo (k) fluoranthene Benzo (k) fluoranthene Benzo (k) fluoranthene Benzo (k) fluoranthene Chrysene Dibenzo (a,h) anthracene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene	2390 ND ND ND ND 69.1 ND ND 94.2 ND ND ND ND	1680 1680 1680 67.0 67.0 67.0 67.0 67.0 1680 1680	11 11 11 11 11 11 11 11 11 11 11 11 11	125 " " 5 " " " 125 " " 5 5	EPA 8270m	07/31/01	08/03/01 " " 08/02/01 " " " " " " 08/03/01	1071915	R-05 R-03 R-08 R-08
Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (b) fluoranthene Benzo (chi) perylene Benzo (k) fluoranthene Benzo (k) fluoranthene Benzo (k) fluoranthene Benzo (k) fluoranthene Chrysene Dibenzo (a,h) anthracene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene	2390 ND ND ND 69.1 ND ND 94.2 ND ND 5360 ND 7150	1680 1680 1680 67.0 67.0 67.0 67.0 67.0 1680 1680	11 11 11 11 11 11 11 11 11 11 11 11 11	125 " " 5 " " " 125 " " 125 " 125	EPA 8270m	07/31/01	08/03/01 " 08/02/01 " " " 08/03/01 " 08/03/01 08/03/01	1071915	R-05 R-03 R-08 R-08 R-08

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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Steve Johnson

Amended Report Issued: 10/25/01 12:23

Polynuclear Aromatic Compounds per EPA 8270M-SIM North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC526SL-A (P1G0878-03) Soil					Sampled: 07/2	0/01 Rece	eived: 07/26/	01	R-05
Surr: Pyrene-d10	NR	40-150					21001011201		
Surr: Benzo (a) pyrene-d12	121 %	40-150							S-02
01AMRX01SL (P1G0878-04) Soil					Sampled: 07/2	2/01 Rece	ived: 07/26/	01	D A1 D A
Acenaphthene	ND	242	ug/kg dry	2	EPA 8270m	07/31/01			R-01,R-05
Acenaphthylene	ND	242	-5 "E 017	11	DFA 62/0111	U//31/UI	08/03/01	1071915	
Anthracene	ND	242	n	**	**	n	π	11	
Benzo (a) anthracene	ND	242	11	11	ti	" "	" "	"	
Benzo (a) pyrene	ND	242	**	n	Ħ	. "			
Benzo (b) fluoranthene	ND	242	"	n	Ħ		"	11 · ,	
Benzo (ghi) perylene	ND	242	n	11	11		"	**	
Benzo (k) fluoranthene	ND	242	н	11	"			" "	
Chrysene	ND	242	u	**	**	n		"	
Dibenzo (a,h) anthracene	ND	242	**	,,	н	11		" "	
Fluoranthene	ND	242	,,	**	n	11	11	,,	
Fluorene	ND	242	#	•		11	n	"	
Indeno (1,2,3-cd) pyrene	ND	242	"		,,	H	n	. "	
Naphthalene	ND	242	"	17	11	н	"	" "	
Phenanthrene	ND	242	11	**	11		11	" "	
Pyrene	ND	242	ıı	11	n	"	#	"	
Surr: Fluorene-d10	90.6 %	40-150							
Surr: Pyrene-d10	141 %	40-150							
Surr: Benzo (a) pyrene-d12	72.8 %	40-150							

40-150

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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Steve Johnson

Amended Report Issued: 10/25/01 12:23

Percent Dry Weight (Solids) per Standard Methods North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMRXT15SL (P1G0878-01) Soil					Sampled: 06/09	9/01 Rece	ived: 07/26/	01	
% Solids	81.9	1.00 %	by Weight	1	NCA SOP	07/27/01	07/30/01	1071779	I-05
01AMC303SL (P1G0878-02) Soil					Sampled: 07/20	0/01 Rece	ived: 07/26/	01	
% Solids	88.1	1.00 %	by Weight	1	NCA SOP	07/27/01	07/30/01	1071779	
01AMC526SL-A (P1G0878-03) Soil		-			Sampled: 07/20	0/01 Recei	ived: 07/26/	01	
% Solids	75.7	1.00 %	by Weight	1	NCA SOP	07/27/01	07/30/01	1071779	
01AMRX01SL (P1G0878-04) Soil					Sampled: 07/22	2/01 Recei	ved: 07/26/0	01	
% Solids	21.4	1.00 %	by Weight	1	NCA SOP	07/27/01	07/30/01	1071779	

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Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Steve Johnson

Amended Report Issued: 10/25/01 12:23

Total Metals per EPA 6000/7000 Series Methods - Quality Control

	North	Creek	Analytical	l - Portland
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch 1071826 - EPA	3050
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Blank (1071826-BLK1)				Prepared: 07/28/01	Analyzed	1. 08/01/01		
Arsenic	ND	0.500	mg/kg		1 mary 200	. 00/01/01	 	
Barium	ND	1.00	"					
Cadmium	ND	0.500	Ħ					
Chromium	ND	0.500	11					
Lead	ND	0.500						
Nickel	ND	1.00	н					
Selenium	ND	0.500	**					
Silver	ND	0.500	#					
Vanadium	ND	2.50	"					
LCS (1071826-BS1)				Prepared: 07/28/01	Analyzed	F 08/01/01		
Arsenic	10.2	0.500	mg/kg	10.0	102	80-120	 	
Barium	11.4	1.00	" " " " "	10.0	114	80-120 80-120		

				Prepared: 07/28/01	Analyze	d: 08/01/01
Arsenic	10.2	0.500	mg/kg	10.0	102	80-120
Barium	11.4	1.00	n	10.0	114	80-120
Cadmium	11.2	0.500	n	10.0	112	80-120
Chromium	11.4	0.500	"	10.0	114	80-120
Lead	10.9	0.500	ŧ	10.0	109	80-120
Nickel	11.8	1.00	11	10.0	118	80-120
Selenium	11.1	0.500	n	10.0	111	80-120
Silver	5.40	0.500	**	5.00	108	80-120
Vanadium	10.8	2.50	н	10.0	108	80-120

Duplicate (1071826-DUP1)	Sour	ce: P1G08	869-01	Prepared: 07/28/01 Analyzed:	08/01/01		
Arsenic	5.07	0.500	mg/kg dry		9.72	40	
Barium	232	1.00	**	211	9.48	40	
Cadmium	ND	0.500	п	ND		40	
Chromium	30.4	0.500	Ħ	27.1	11.5	40	
Lead	18.2	0.500	Ħ	16.3	11.0	40	
Nickel	23.7	1.00	**	22.4	5.64	40	
Selenium	ND	0.500	n	ND	2.2.	40	
Silver	ND	0.500	n	ND	21.4	40	
Vanadium	152	2.50	n	136	11.1	40	

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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Steve Johnson

Amended Report Issued: 10/25/01 12:23

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North	Creek	Analytical	- Portland
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1071826 - EPA 3050										
Matrix Spike (1071826-MS1)	So	urce: P1G08	69-01	Prepared:	07/28/01	Analyzed	: 08/01/01			
Arsenic	18.3	0.500	mg/kg dry	12.9	4.60	106	75-125			
Barium	242	1.00	"	12.9	211	NR	75-125			Q-02
Cadmium	15.2	0.500		12.9	ND	118	75-125			Q - 02
Chromium	49.7	0.500	**	12.9	27.1	175	75-125			Q-02
Lead	34.3	0.500	17	12.9	16.3	140	75-125			Q-02 Q-02
Nickel	41.6	1.00	11	12.9	22.4	149	75-125			Q-02 Q-02
Selenium	14.1	0.500	n	12.9	ND	109	75-125			Q-02
Silver	7.86	0.500	n	6.44	ND	121	75-125			
Vanadium	170	2.50	"	12.9	136	NR	75-125			Q-03
Batch 1081413 - EPA 3050										
Blank (1081413-BLK1)				Prepared:	08/15/01	Analyzed	: 08/16/01			
Nickel	ND	1.00	mg/kg							
LCS (1081413-BS1)				Prepared:	08/15/01	Analyzed	l: 08 /16/01			
Nickel	17.2	1.00	mg/kg	20.0		86.0	80-120			Q-18
Duplicate (1081413-DUP1)	Son	urce: P1G01	31-01	Prepared:	08/15/01	Analyzed	l: 08/16/01			
Nickel	11.1	1.00	mg/kg dry		11.4			2.67	40	
Matrix Spike (1081413-MS1)	So	urce: P1G01	31-01	Prepared:	08/15/01	Analyzed	: 08/16/01			
Nickel	34.9	1.00	mg/kg dry		11.4	107	75-125			Q-18

North Creek Analytical - Portland

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Project: Amchitka

Project Number: 21090, PO# 21090 Project Manager: Steve Johnson

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Mercury by EPA Method 1631 - Quality Control

_North (Creek A	Analvt	ical - ˈ	Portland

	TOTAL TOTAL A									
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1071910 - Metals										
Blank (1071910-BLK1)				Prepared:	07/31/01	Analyzed	l: 08/01/01	* ***		
Mercury	ND	0.000500	mg/kg							
LCS (1071910-BS1)				Prepared:	07/31/01	Analyzed	1: 08/01/01			
Mercury	0.00535	0.000500	mg/kg	0.00500		107	85-115			·
Duplicate (1071910-DUP1)	So	urce: P1G08	78-01	Prepared:	07/31/01	Analyzed	l: 08/01/01			
Мегсигу	0.00202	0.000500	mg/kg dry		0.00177			13.2	20	··· <u></u>
Matrix Spike (1071910-MS1)	So	urce: P1G08	78-01	Prepared:	07/31/01	Analyzed	: 08/01/01			
Mercury	0.00849	0.000500	mg/kg dry	0.00611	0.00177	110	75-125			





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Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Steve Johnson

Amended Report Issued: 10/25/01 12:23

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch	107	[1915 -]	EPA	3550

Blank (1071915-BLK1)				Prepared: 07/3	1/01 Analyzed	1. 08/02/01		
Acenaphthene	ND	13.4	ug/kg		1 111111 / 200	. 00/04/01	<u> </u>	
Acenaphthylene	ND	13.4	11					
Anthracene	ND	13.4	u					
Benzo (a) anthracene	ND	13.4						
Benzo (a) pyrene	ND	13.4	11					
Benzo (b) fluoranthene	ND	13.4	н					
Benzo (ghi) perylene	ND	13.4	**					
Benzo (k) fluoranthene	ND	13.4	11					
Chrysene	ND	13.4	,					
Dibenzo (a,h) anthracene	ND	13.4						
Fluoranthene	ND	13.4						
Fluorene	ND	13.4	#1					
ndeno (1,2,3-cd) pyrene	ND	13.4	**					
Naphthalene	ND	13.4	**					
Phenanthrene	ND	13.4	*					
Pyrene	ND	13.4	17					
Surr: Fluorene-d10	47.3		"	83.3	56.8	40-150		
Surr: Pyrene-d10	72,9		"	83.3	87.5	40-150		
Surr: Benzo (a) pyrene-d12	69.8		"	83.3	83.8	40-150		
LCS (1071915-BS1)				Prepared: 07/3	1/01 Analyzed	1: 08/02/01		
Acenaphthene	131	13.4	ug/kg	167	78.4	33-139	· · · · · · · · · · · · · · · · · · ·	
Benzo (a) pyrene	150	13.4	"	167	89.8	45-149		
Pyrene	121	13.4	н	167	72.5	39-138		
Surr: Fluorene-d10	53.4		"	83.3	64.1	40-150		
Surr: Pyrene-d10	72.3		"	83.3	86.8	40-150		
Surr: Benzo (a) pyrene-d12	71.3		n	83.3	85.6	40-150		

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Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Steve Johnson

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Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control

North	Creek	Analy	vtical -	Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1071915 - EPA 3550										
Matrix Spike (1071915-MS1)	So	urce: P1G07	783-06	Prepared	: 07/31/01	Analyzed	: 08/02/01			
Acenaphthene	146	13.4	ug/kg dry	182	ND	80.2	33-139			
Benzo (a) pyrene	168	13.4	19	182	ND	92.3	45-149			
Pyrene	137	13.4	n	182	ND	75.3	39-138			
Surr: Fluorene-d10	57.4		п	91.2		62,9	40-150			
Surr: Pyrene-d10	81.7		n	91.2		89.6	40-150			
Surr: Benzo (a) pyrene-d12	78.5		"	91.2		86.1	40-150			
Matrix Spike Dup (1071915-MSD1)	So	urce: P1G07	783-06	Prepared	: 07/31/01	Analyzed	1: 08/02/01			
Acenaphthene	149	13.4	no/ko dry	182	ND	R1 Q	33_130	2.03	60	

Matrix Spike Dup (1071915-MSD1)	Source: P1G0783-06			Prepared:	07/31/01					
Acenaphthene	149	13.4	ug/kg dry	182	ND	81.9	33-139	2.03	60	-
Benzo (a) pyrene	169	13.4	н	182	ND	92.9	45-149	0.593	60	
Pyrene	135	13.4	n	182	ND	74.2	39-138	1.47	60	
Surr: Fluorene-d10	57.5		n	91.2		63.0	40-150		***,********	
Surr: Pyrene-d10	<i>79.2</i>		n	91.2		86.8	40-150			
Surr: Benzo (a) pyrene-d12	78.4		"	91.2		86.0	40-150			

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Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Steve Johnson

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Percent Dry Weight (Solids) per Standard Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit Un	Spike its Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1071779 - Dry Weight						· · ·			
Duplicate (1071779-DUP1)	Sou	rce: P1G0644-0	Prepared	: 07/27/01	Analyzed:	07/30/01			
% Solids	90.3	1.00 % by V		90.1			0.222	20	
Duplicate (1071779-DUP2)	Sou	rce: P1G0893-0	Prepared	: 07/27/01	Analyzed:	07/30/01			
% Solids	79.7	1.00 % by \	Veight	79.1			0.756	20	
Duplicate (1071779-DUP3)	Sou	rce: P1G0916-1	Prepared	: 07/27/01	Analyzed:	07/30/01			
% Solids	89.1	1.00 % by V	Veight	88.7			0.450	20	

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Bristol Environmental & Engineering 2000 W. International Airport Rd. #C-1 Anchorage, AK 99502-1116

Project: Amchitka

Project Number: 21090, PO# 21090

Project Manager: Steve Johnson

Amended Report Issued: 10/25/01 12:23

Notes and Definitions

I-05	This sample was received outside EPA recommended holding time.
Q-02	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
Q-03	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
Q-06	Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
Q-18	See Nonconformance Report; data integrity has been impacted.
R-01	The reporting limit for this analyte was raised to compensate for the limited sample quantity available for the analysis.
R-03	The reporting limit for this analyte was raised due to matrix interference.
R-05	Reporting limits raised due to dilution necessary for analysis. Sample contains high levels of reported analyte, non-target analyte, and/or matrix interference.
R-08	Due to matrix unable to resolve Benzofluoranthene isomers. Value reported only in Benzo(b) category represents Total Benzo(b+k)fluoranthene.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
wet	Sample results reported on a wet weight basis (as received)
RPD	Relative Percent Difference

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc. **Environmental Laboratory Network**

Page 13 of 14



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Jerry Orlando, Project Manager/OA